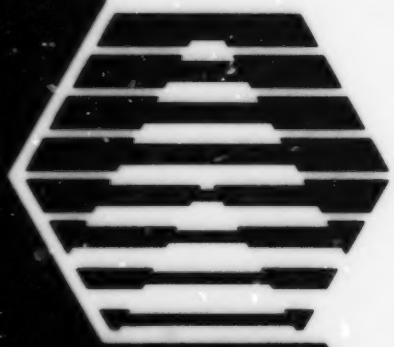
EXECUTIVE DIRECTOR'S REPORT ON APPRENTICESHIP AND TRADE CERTIFICATION PROGRAMS FOR 1989



EXCELLENCE THROUGH
TRAINING AND EXPERIENCE

INTRODUCTION

This Report is a review and statistical summary of Apprenticeship and Trade Certification programs and activities for the 1989 calendar year.

The Report is produced annually by the Executive Director of Apprenticeship and Trade Certification and staff of the Department of Career Development and Employment for the Alberta Apprenticeship and Trade Certification Board.

91-02425/

Mr. John Ritter,
Chairman
Apprenticeship and Trade
Certification Board
10th Floor, CityCentre
10155 - 102 Street
Edmonton, Alberta
T5J 4L5

Dear Mr. Ritter:

I am pleased to provide this report of the operation of the apprenticeship and trade certification system for the calendar year ending December 31, 1989. The report includes a summary of statistical data and information prepared monthly for the Alberta Apprenticeship and Trade Certification Board by the Executive Director of Apprenticeship and Trade Certification and staff of the Department of Career Development and Employment.

This year the report format has changed significantly to reflect more accurately the operation and delivery of apprenticeship and trade certification programs and services within the organizational structure of Career Development and Employment. This revised format features an overview of the purpose and mandate of each of the systems' administrative branches and establishes a context within which program activities and related statistics may be interpreted. The charts and statistical tables which traditionally comprised the report have been retained as appendices for the purpose of maintaining integrity of cumulative program data.

Respectfully submitted,

Don Bell

DON W. BELL
Executive Director
Apprenticeship and Trade Certification
Alberta Career Development and Employment

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I HIGHLIGHTS AND SUMMARY OF STATISTICAL TRENDS FOR 1989

NUMBER OF APPRENTICES REGISTERED

The number of apprentices registered at the end of 1989 totalled **20,952**, an increase of **1,321** or **6.3%** over December 31, 1988. This third consecutive annual increase establishes a pattern of growth in the total number of apprentices which is expected to continue into the early 1990's. Chart 1 (appendix, page 26) illustrates this pattern as well as several related statistical trends.

NEW APPRENTICES

The number of new apprentices in 1989 totalled **7,583**, an increase of **917** or **13.8%** over 1988. This trend towards regular annual increases reflects the pattern of economic growth in the province since 1984. Tables 1 and 2 (appendix, page 13) show the trades in which new apprentice registrations increased and declined in 1989.

GRADUATIONS

In 1989, **3,669** apprentices completed all requirements of their apprenticeship training and graduated with Completion of Apprenticeship and Journeyman certificates. This represents an increase of **5.4%** over 1988. This trend towards growth in the number of completions will continue into the early 1990's as a result of consistent growth in the number of new apprentice registrations.

RATE OF INDENTURE

The "rate of indenture" (ratio of new apprentices to the total apprentices registered) for 1989 was **27.8%**, an increase of **1.9%** over 1988. This sixth consecutive year of increase brings the indenture rate back to historical levels established prior to the recession of the early 1980's.

RATE OF CANCELLATION

In 1989, there were **2,951** cancellations of apprenticeship contracts, which is **362** more than in 1988. This resulted in a "cancellation rate" of **10.8%** which is relatively consistent with the 28 year average cancellation rate of **10.1%**. Chart 2 (appendix, page 26) illustrates the consistency in long term trends for both cancellation and indenture rates.

SIGNIFICANT NUMBER

There were **two** trades (Electrician and Motor Mechanic) which had more than **2,000** apprentices registered. **Five** trades (Beautician, Carpenter, Cook, Heavy Duty Mechanic and Welder) had more than **1,000** apprentices registered.

JOURNEYMAN UPDATING PROGRAM

Attendance in Journeyman Updating courses in 1989 was **2,164**. This is a decline of **918** or **29.8%** over 1988. Chart 5 (appendix, page 28) illustrates the pattern of growth and decline in enrollments since the program was introduced in 1984. Although some decline following the first few years of the program was anticipated, the current level of participation is lower than expected. One of the factors contributing to declining enrollments is the recent increase in apprenticeship training space requirements which has affected the ability of training establishments to accommodate flexible and responsive updating course schedules. Issues relating to program funding, scheduling and relevancy of course content are currently being reviewed.

JOURNEYMAN UPGRADING PROGRAM

Attendance in Journeyman Upgrading courses increased from **29** in 1988, to **40** in 1989. This trend towards increased demand for Journeyman Upgrading is shown in Chart 4 (appendix, page 27). One of the factors contributing to this is the rising demand for certified tradepersons which corresponds with increased provincial migration of workers who require upgrading of their skills to meet Alberta certification standards.

APPRENTICESHIP WORK EXPERIENCE PROGRAM

This new program was designed to address potential skill shortages by creating training positions within provincial government departments in those trades where skill shortages are anticipated. In 1989, 100 training position were approved in four participating government departments.

INTERNATIONAL TRAINING INITIATIVE

In 1989, three workers of the Dugas Company in the State of Dubai, one of the seven United Arab Emirates, were registered as Alberta Millwright apprentices. These Dubai nationals are receiving their technical training in Alberta and will obtain Alberta certification upon successful completion of the program. This pilot project has the potential of becoming the first in a series of Alberta apprenticeship programs marketed internationally.

II. THE ALBERTA APPRENTICESHIP AND TRADE CERTIFICATION BOARD

The Apprenticeship and Trade Certification Board is established under the authority of the Manpower Development Act to provide a voice for industry (employers and employees) as well as the general public in apprenticeship and trade certification matters.

The Board's primary function is to advise the Minister of Career Development and Employment on all matters pertaining to apprenticeship training and certification. Its functions include reviewing petitions for designation of new trades and assessing provincial apprenticeship committee recommendations relative to various trade regulations and training programs. The Board also hears and rules on appeals regarding decisions made by the Executive Director.

In making policy decisions and carrying out its obligations, the Board draws upon the specific expertise of **53** Provincial Apprenticeship Committees; one for each designated trade. Membership of the provincial apprenticeship committees is comprised of all local apprenticeship committee members; therefore, the Board is guided by approximately **850** members representing all areas of Alberta. In addition, the Board has the authority to call public meetings to broaden its input on matters relating to its responsibility under the Act.

The Board consists of a Chairman, a minimum of three employer representatives, and an equal number of employee representatives, as well as the Executive Director of Apprenticeship and Trade Certification. Also included are two members representing the general public. Additionally, two alternate members, one representing employers and the other employees, may act in the absence of a regular member to represent their respective groups.

The membership of the Board in 1989 was as follows:

CHAIRMAN Mr. John D. Ritter

EXECUTIVE DIRECTOR Mr. Don W. Bell

REPRESENTING EMPLOYERS

Mr. Gordon Campbell
Mr. Peter Conboy
Mr. Ephraim Haas
Mr. Jake Thygesen
Mr. Terence Befus
(Alternate)

REPRESENTING EMPLOYEES

Mr. Michael Folk
Mr. Bill Marlowe
Mr. John Rodden
Mr. James Ross
Mr. Terry Green
(Alternate)

REPRESENTING GENERAL PUBLIC

Ms. Muriel Stanley-Venne
(Vacant Position)

The following is a summary of the Board's activities for 1989.

BOARD MEETINGS

The Apprenticeship and Trade Certification Board held **eight** regular meetings in 1989. During these meetings the business arising from **19** provincial apprenticeship committee meetings was dealt with. This included approving changes to trade regulations, course curriculum and record books.

PUBLIC MEETINGS

In 1989, **four** meetings were held with the public to obtain input on matters relating to requests for redesignation of the Appliance Serviceman, Boilermaker, Ironworker and Steel Fabricator trades, as well as the proposed designation of the Locksmith occupation.

DELEGATIONS

During 1989, delegations representing the Ironworker and Crane and Hoisting Equipment Operator industry appeared before the Board to voice concerns regarding the designation status of their trades. Three additional groups also made presentations to the Board; one regarding the Workplace Hazardous Materials Information System (WHMIS) legislation; one regarding proposed labour legislation; and one from the Attorney Generals Department regarding the proposed designation of the Locksmith occupation.

There were two appeals heard by the Board; one appealing the Executive Director's decision to reject an application to write a journeyman examination; and one appealing a decision to cancel an apprenticeship contract.

APPRENTICESHIP COMMITTEE APPOINTMENTS

The Board appointed **268** nominees for membership on local apprenticeship committees in 1989. **Three** appointments were rescinded by the Board.

TRADE REGULATIONS

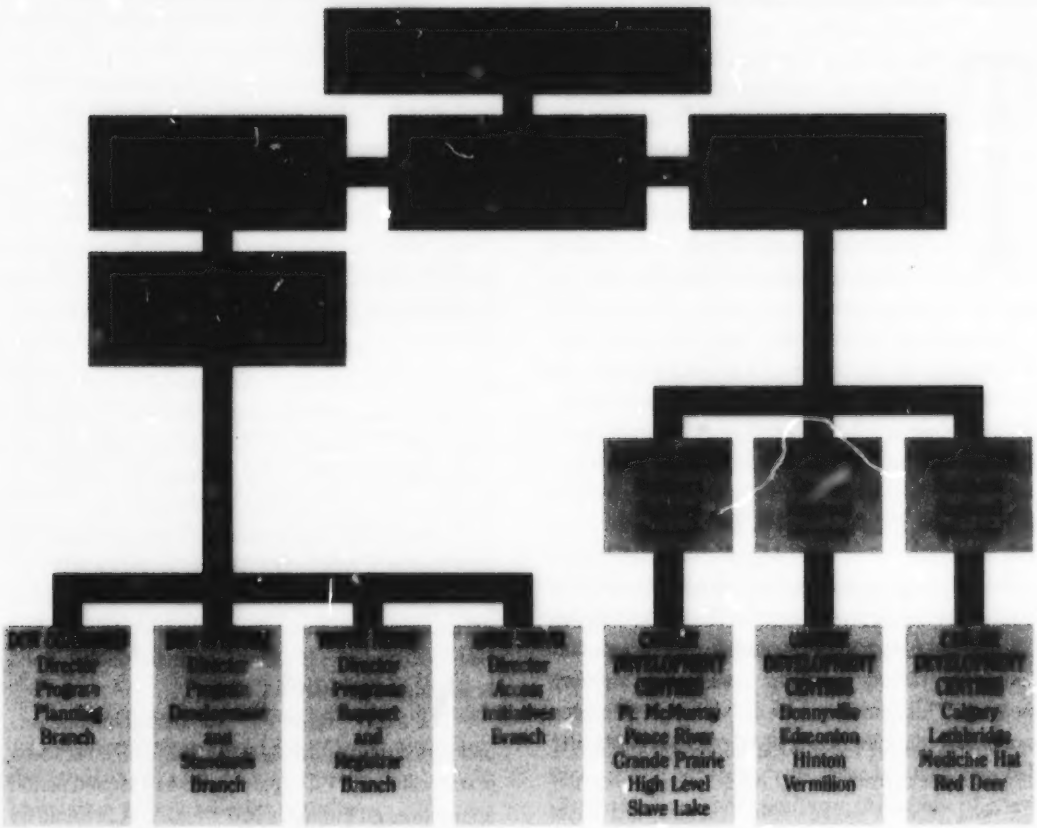
On the recommendation of the Board, Ministerial Orders were filed in 1989 for the Elevator Constructor trade (165/89), Heavy Duty Mechanic trade (247/89), Projectionist trade (248/89), Sprinkler Systems Installer trade (251/89), and the Sawfiler trade (170/89).

An Order-in-Council was filed designating the Locksmith occupation (639/89) as a trade to which Part 3, Division 1 and 2 of the Manpower Development Act applies.

III. ORGANIZATIONAL STRUCTURE OF APPRENTICESHIP AND TRADE CERTIFICATION WITHIN ALBERTA CAREER DEVELOPMENT AND EMPLOYMENT

The Apprenticeship and Trade Certification system and programs are administered by the Department of Career Development and Employment and operate across two divisions: **Policy and Program Development Division** and **Field Services Division**. In the Policy and Program Development Division, the four main program support and services branches of Apprenticeship and Trade Certification are: Program Planning Branch, Program Development and Standards Branch, Programs Support and Registrar Branch and the Access Initiatives Branch. These Branches are responsible for policy and program development, administration, and operationalization of the requirements of the Manpower Development Act. The Field Services Division is responsible for the delivery of apprenticeship training and certification services through **13** Career Development Centres in the province.

ORGANIZATIONAL CHART



IV POLICY AND PROGRAM DEVELOPMENT DIVISION

The Policy and Program Development Division is responsible for taking the lead role in policy analysis, program design and development, and assisting in the maintenance of program integrity through the assessment of program objectives. The Division seeks to ensure that the Department's policies and programs are designed to respond to Alberta's economic strategies and the needs of the provincial labour market. Each Apprenticeship and Trade Certification branch has particular responsibilities with respect to the activities necessary to fulfill this mandate. An explanation of these activities follows.

PROGRAM PLANNING BRANCH

The role of the Program Planning Branch includes investigating future training requirements; researching new occupations with potential for designation and/or training and determining the viability of alternate and innovative training programs, systems and delivery methods. This Branch's responsibilities also includes monitoring the delivery of apprenticeship services, and developing related policy alternatives and relevant data bases. In addition to providing a wide range of technical and support services to other branches of Apprenticeship and Trade Certification and the Department as a whole, the Branch undertook two major projects in 1989:

APPRENTICESHIP AWARENESS PROMOTION PROGRAM

Final approvals were received for completing the development and proceeding with implementation of the Apprenticeship Awareness Promotion Program's 1989-90 plan. The plan consists of a mailout campaign to employers and a mass media campaign directed at the general public. While the goal of the mailout campaign is to increase participation in apprenticeship training, the goal of the mass media campaign will be to enhance the image of the trades and to promote awareness of trades as a viable career choice.

Three employer oriented publications were produced for the mailout segment of the plan. Some existing apprenticeship oriented publications were also updated. Television, radio and newspaper advertising was developed for the mass media campaign. Implementation of the 1989-90 plan will start February 1990.

COMPETENCY BASED APPRENTICESHIP TRAINING (CBAT)

Competency-based apprenticeship training is a new approach to the training of apprentices. It allows each individual to progress through training at a rate determined by his or her own capabilities and work experience. The Program Planning Branch was given the mandate to coordinate the implementation of CBAT in Alberta. CBAT was introduced as a pilot project in the Carpenter, Welder and Electrician trades at the beginning of the 1988-89 school year. It was offered to the Carpenter and Welder apprentices at SAIT and Red Deer College and to Electrical apprentices at NAIT and Lethbridge Community College.

The CBAT project was extended to include second period training during 1989. The 1989-90 academic year will see **577** first period and **414** second period apprentices go through CBAT training. A preliminary evaluation of CBAT indicated that apprentices and instructors generally appreciate this approach to training. The evaluation also indicated that training costs and allocation of adequate space and instructor time are areas that should be focused on in the coming year.

PROGRAM DEVELOPMENT AND STANDARDS BRANCH

In accordance with the authority of the Manpower Development Act, this Branch is responsible for developing program policies and for establishing, developing and maintaining relevant apprenticeship and journeyman training and trade certification programs. This involves ongoing consultation with business and industry,

training establishments, and government departments as well as federal and interprovincial liaison. In 1989, the Branch continued to update and maintain the relevancy of **48** apprenticeship training programs as well as develop, establish and maintain approved industry standards for all 53 designated trades.

The following is a summary of Branch activities for 1989:

MEETINGS AND LIAISON CALLS

The Branch's mandate necessitates numerous meetings and contact with various apprenticeship committees, especially Provincial Apprenticeship Committees (PACs), to ensure industry is significantly involved in keeping curriculum relevant to, and current with, acceptable trade practices.

In 1989, the Branch organized **21** PAC meetings and **60** PAC subcommittee meetings. Branch personnel also acted in an advisory capacity at **45** Local Apprenticeship Committee (LAC) meetings. In addition, the Branch held **217** meetings with training institution personnel and made **198** separate liaison calls at training establishments. (Table 3, pages 14 and 15 of the appendix provides a complete breakdown by trade of all PAC and instructor meetings held in 1989).

In keeping with the Branch's mandate of ensuring significant industry involvement in all curriculum and program changes, Branch personnel also made **165** liaison calls at industry worksites.

CURRICULUM/COURSE DEVELOPMENT

In 1989 the Branch continued its work in maintaining and enhancing the Apprentice Course Outline as a curriculum document. This involved the development and sequencing of training course objectives for major topic areas in each trade as well as revising trade examinations to ensure effective measurement of achievement of course objectives.

During the year the Branch developed and revised **24** course outlines and **63** trade examinations.

INTERPROVINCIAL RED SEAL PROGRAM

The Branch also continued its work with the Interprovincial Red Seal Program. The purpose of this program is to establish and maintain standards and to enhance the mobility of tradepersons in the designated Red Seal trades throughout Canada. This is accomplished in coordination with other provinces, territories and the federal government.

Branch activities in this regard involved participating in the work of the Interprovincial Standards Examination Committee. This included developmental work on the Glassworker and Hairstyling interprovincial examinations, and revisions to the Boilermaker, Heavy Duty Mechanic, Motor Mechanic, Painter and Decorator, Plumber and Steamfitter-Pipefitter interprovincial examinations. Assistance was also provided to other provinces in the revision of an additional **9** interprovincial examinations. In 1989 the Boilermaker, Motor Mechanic and Hairstyling interprovincial examinations were released for use.

The Branch also participated in the continued development and revision of the Interprovincial Standards Program's National Occupational Analysis Series. This included the completion of **12** National Trade Analysis Reports in 1989.

JOURNEYMAN UPDATING PROGRAM

The Journeyman Updating Program is designed to enhance the skills and knowledge of certified journeymen in areas of their trade most effected by technological change. In 1989, the development of new updating courses as well as the revision and maintenance of approximately **180** existing courses was a priority.

ACCREDITATION

The Branch also reviews and ensures articulation occurs for trade related programs offered by post-secondary institutions in Alberta. In 1989 approximately **88** pre-employment and other "front-end" trade training programs were approved for delivery at **20** locations in Alberta. The Branch also continued to monitor and update accreditation policies established by the Provincial Apprenticeship Committees regarding these programs.

TRADE REGULATIONS

In consultation with representatives from each trade, new trade regulations were developed and current trade regulations were revised for **7** trades. This included a new trade regulation for the Crane and Hoisting Equipment Operator trade which were approved by Order-in-Council and forwarded to the crane and hoisting industry with letters advising of the changes. Advertisements were also placed in daily and weekly newspapers throughout Alberta to serve notice to the public of the change in trade designation from voluntary to compulsory certification as well as the date the new trade regulation would come into force.

MAJOR ASSIGNMENTS

In 1989 the Branch completed and submitted for consideration by the Apprenticeship and Trade Certification Board, a comprehensive occupational survey of the Locksmith industry. This subsequently resulted in the designation of the Locksmith trade on November 16, 1989.

Development and implementation of the Competency Based Apprenticeship Training (CBAT) pilot project also continued to require the commitment of branch personnel and resources in 1989. Activities in this area included coordinating the development of learning modules and related curricula materials as well as the development of three parallel examinations for each training period of the three trades involved in the project (Carpenter, Electrician and Welder).

In response to the advent of rapid technological innovations in the fields of program development and design, the Branch also placed a priority on upgrading the computer related skills of staff during the year.

PROGRAMS SUPPORT AND REGISTRAR BRANCH

Establishing guidelines for the efficient utilization of the provincial technical training system and implementation of training programs in concert with Field Services Division are primary responsibilities of this Branch. This requires ongoing interaction with representatives from technical training institutions, the federal government, and other provincial departments. The Branch is also responsible for assessing and developing policy guidelines to ensure training and certification standards are maintained throughout the province's regionalized delivery system. The main focus of Branch activities are: negotiating, coordinating and implementing apprenticeship and journeyman training and examination schedules; assessing examination results and monitoring examination security; and developing and maintaining the electronic data-base (Skilled Trades Information System) used to administer the Apprenticeship and Trade Certification system and activities and to provide support for the various Apprenticeship branches.

The following is a summary of Branch activities for 1989:

TECHNICAL TRAINING ATTENDANCE

In 1989, the Branch arranged for **14,236** training spaces at **16** training establishments. Apprentices utilized **12,032** of these spaces through **778** scheduled classes. The Journeyman Updating and Upgrading programs utilized **2,164** and **40** class spaces respectively. A decline over 1988 of **918** attendees in Journeyman updating was offset by an increase of **1,262** in the number of apprentices attending technical training. This increase in apprenticeship training requirements will continue in the early 1990's as a result of the higher levels of new apprentice registrations experienced in

recent years. Chart 6 (appendix, page 28) illustrates historical apprenticeship training space utilization levels and the recent trend towards increased apprentice technical training space requirements.

ALLOCATION OF TRAINING SEATS AT PROVINCIAL TRAINING ESTABLISHMENTS

The Branch was able to respond to specific regional requirements by scheduling technical training courses at **15** different locations in the province. Tables 4, 5, and 6 (appendix, pages 16, 17 and 18) provide a complete analysis of training seat allocations in 1989.

TECHNICAL TRAINING FOR OUT-OF-PROVINCE APPRENTICES

In 1989, Alberta provided **136** training spaces to apprentices from other jurisdictions. These included:

- BRITISH COLUMBIA — 9
- ONTARIO — 2
- MANITOBA — 13
- NORTHWEST TERRITORIES — 74
- SASKATCHEWAN — 8
- YUKON — 27
- DUBAI — 3

OUT-OF-PROVINCE TRAINING FOR ALBERTA APPRENTICES

Arrangements were made with the province of British Columbia to provide **20** technical training spaces for Alberta Sawfiler apprentices at the British Columbia Institute of Technology.

JOURNEYMAN CERTIFICATION

There were **6,389** Alberta journeyman certificates issued to successful journeyman candidates in 1989. Of these, **3,517** were completing Alberta apprentices; **117** were journeymen from other provinces who had either interprovincial status or a completion of apprenticeship certificate; and, **2,755** were candidates who successfully challenged the Alberta Journeyman examination.

INTERPROVINCIAL RED SEALS

A total of **3,177** Interprovincial Red Seals were issued to Journeymen who were successful on the interprovincial standards examination. Of these **2,715** were completing Alberta apprentices and **462** were candidates who had previously obtained their Journeyman Certificate.

JOURNEYMAN UPDATING CARDS

In 1989, **2,006** Journeyman Updating Course Attendance Cards were issued to certified journeymen who completed an updating course.

EPB/GPB CERTIFICATE EXCHANGES

In 1989, **40** expired Journeyman Certificates, issued by either the Electrical Protection Branch (EPB) or the Gas Protection Branch (GPB), were exchanged for Alberta Journeyman Certificates of Proficiency.

REPLACEMENT OF CERTIFICATES

In 1989, **2,193** replacement certificates were issued to tradespersons who had either misplaced their original certificates or had a change of name. In addition, **852** pocket certificates and **15** Journeyman Updating course attendance cards were replaced upon client request.

NOTE: Table 7 (appendix, pages 19 and 20) provides a statistical analysis by trade of all certificates issued, replaced or exchanged in 1989.

ACCESS INITIATIVES BRANCH

The primary objectives of the Access Initiatives Branch are to develop policies and programs that promote the increased participation of women, Natives, persons with disabilities, immigrants, and visible minorities in apprenticeship training in Alberta. The Branch also provides specialized assistance to apprentices with special needs, including the incarcerated, parolees and apprentices with disabilities.

The following is a summary of Branch activities for 1989:

PARTICIPATION BY MINORITY GROUPS

At the end of 1989, approximately one tenth of registered apprentices were women. Of these, approximately **90%** were registered as apprentices in the service trades, and **3%** in non-traditional construction trades. Native people made up approximately **1%**. Fewer than **0.1%** of apprentices were classified as disabled. There are no accurate figures available for the participation of visible minorities and immigrants in apprenticeship. In 1989, an Access Consultant made approximately **30** visits to correctional institutions to administer examinations, and engaged in ongoing consultations with disabled apprentices, their employers and their instructors.

BRIDGING PROGRAMS

A course curriculum based on a bridging model for the trades and technologies was produced for Access Initiatives in 1989. Three pilot courses were completed: one with Natives; one with immigrants; and one with a mixed population. An additional bridging course for women was scheduled for January 1990.

WORKSHOP FOR CAREER ADVISORS

A Workshop for Career Advisors titled "Opening Doors to the Trades and Technologies" was developed in early 1989 and **21**, two-day workshops, attended by over **300** individuals, were held across the Province. This workshop was also adapted for presentation in the Alberta school system.

NEW VIDEO

A 15 minute video "The Job Hunt: New Opportunities" was produced and distributed to all Career Development Centres.

PROMOTIONAL MATERIALS

During the year, materials were developed which are designed to promote the trades and technologies to junior high school students. The completed package includes a brochure entitled "Plot Your Course" that folds out into a poster, and a student workbook, entitled "A Career in the Trades or Technologies".

In consultation with the Premier's Council on the Status of Persons with Disabilities, a brochure for employers entitled "Focus on Ability", was developed to encourage the hiring of persons with disabilities.

PROMOTIONAL CAMPAIGNS

A mailing campaign including the distribution of posters and information kits to community agencies, Chambers of Commerce, and post-secondary institutions in Alberta, was completed in November of 1989. In December, information folders were prepared and mailed for local distribution through Career Development Centres.

Preparations for the Access Awareness Campaign were also made during the year. Posters and print ads with the theme "Today's Employers Know a Good Investment When They See One" were scheduled to appear in daily and weekly newspapers and magazines beginning early in 1990.

VI FIELD SERVICES DIVISION

The department operates a regionalized delivery system through the Field Services Division. Thirteen Career Development Centres (CDCs) provide a full range of Apprenticeship and Trade Certification program services to employers, journeymen and apprentices in their geographic areas. These offices are located in Bonnyville, Calgary, Edmonton, Fort McMurray, Grande Prairie, High Level, Hinton, Lethbridge, Medicine Hat, Peace River, Red Deer, Slave Lake and Vermilion. The regionalized delivery system facilitates ready access to services for both employers and employees through office visits or staff visits to the job site.

Job site visits are conducted by Field Consultants who are the government's primary contact with industry in Apprenticeship and Trade Certification. This direct contact ensures both employers and employees are counselled on apprenticeship training and journeyman certification in the designated trades. While the Field Consultant's mandate revolves around ensuring application and enforcement of the Manpower Development Act, the emphasis is on consulting with business, industry and individuals to develop skilled tradespeople to meet Alberta's needs.

The following is a summary of Field Services Division activities as they relate to the delivery of Apprenticeship and Trade Certification system programs.

SHOP REGISTRATIONS

One of the major activities of field staff is the ongoing registration of shops/businesses employing apprentices and journeyman. In 1989 field staff completed **8,588** shop registrations, a decline of **3,992** or **32%** over 1988. This second consecutive year of decline in shop registrations may be attributed to limited resources and increasing demand for other Department programs and services.

LOCAL APPRENTICESHIP COMMITTEE MEETINGS

Field Services staff coordinate industry involvement in local apprenticeship training and trade certification matters by organizing and chairing Local Apprenticeship Committee (LAC) meetings. In 1989 field staff organized **203** LAC meetings which is a **44%** increase over the **141** meetings held in 1988.

NEW APPRENTICE REGISTRATIONS

In 1989 field staff also provided assistance to employers and individuals in establishing **7,583** new apprenticeship contracts. This is an increase of **917** or **13.8%** over 1988 and represents an area of growth in field service activities.

SCHOOL ATTENDANCE

Field staff play a crucial role in maintaining efficient use of class space at the **15** technical training establishments involved in delivery of apprenticeship technical training. In 1989, field staff were responsible for the registration, documentation and follow-up of **778** classes and **12,032** apprentices, which is an increase of **11.7%** over 1988. In addition counselling and liaison services were maintained at all training establishments to ensure that the needs of instructors and apprentices were being met.

ADMINISTRATION OF EXAMINATIONS

Another major area of field service activity is the administration of examinations for prospective and indentured apprentices as well as for tradespeople who qualify to challenge the Alberta Journeyman Certification examination(s). In 1989 field staff administered **31,926** examinations which represents an **18.6%** increase over 1988. Table 8 (appendix, pages 21 and 22) provides a complete listing by trade and examination type of all examinations administered by Field Services Division.

GRADUATIONS

Field staff are also involved in the administrative procedures for terminating the apprenticeship contract for those who successfully complete training requirements and are eligible for Journeyman status. In 1989, **3,669** graduated from the apprenticeship system with Completion of Apprenticeship and Alberta Journeyman Certificates.

COMMUNITY SERVICES

Field staff regularly participate in Career Day events at Alberta high schools and other training establishments. This promotional activity helps students make informed choices regarding careers in the designated trades. In 1989, field staff spent **147.1** days providing this type of service.

NOTE: Table 9 (appendix, page 23) provides a statistical summary of major Field Services activities related to Apprenticeship and Trade Certification program delivery in 1989.

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TABLE 1

TRADES IN WHICH NEW APPRENTICE REGISTRATIONS INCREASED SIGNIFICANTLY DURING 1989

TRADE	NEW APPRENTICES IN 1988	NEW APPRENTICES IN 1989	PERCENT GROWTH
CRANE & HOISTING EQUIPMENT OPERATOR	9	56	522%
COMMUNICATION ELECTRICIAN	14	52	271%
POWER SYSTEM ELECTRICIAN	10	34	240%
ROOFER	18	36	100%
IRONWORKER	12	23	92%
FLOORCOVERING MECHANIC	26	46	77%
POWER LINEMAN	38	66	74%
RECREATION VEHICLE MECHANIC	29	46	59%
STEAMFITTER-PIPEFITTER	89	134	51%
BOILERMAKER	29	42	45%
PLUMBER	180	258	43%
ELECTRONIC TECHNICIAN	39	53	36%
PAINTER AND DECORATOR	51	67	31%
INSTRUMENT MECHANIC	192	250	30%
HEAVY DUTY MECHANIC	432	529	22%
MILLWRIGHT	211	258	22%
MOTOR MECHANIC	681	814	20%

TABLE 2

TRADES IN WHICH NEW APPRENTICE REGISTRATIONS DECREASED DURING 1989

TRADE	NEW APPRENTICES IN 1988	NEW APPRENTICES IN 1989	PERCENT DECLINE
LATHER-INTERIOR SYSTEMS MECHANIC	19	10	47%
SPRINKLER SYSTEMS INSTALLER	25	14	44%
BRICKLAYER	31	21	32%
BARBER	7	5	29%
MACHINIST	178	128	28%
TILESETTER	26	19	27%
TRANSPORT REFRIGERATION MECHANIC	8	6	25%
GASFITTER	57	47	18%
STEEL FABRICATOR	29	27	7%
WATER WELL DRILLER	32	30	6%
PRINTING & GRAPHIC ARTS CRAFTSMAN	113	108	4%
APPLIANCE SERVICEMAN	31	30	3%
AUTO BODY MECHANIC	277	274	1%

TABLE 3

PROVINCIAL APPRENTICESHIP COMMITTEE AND INSTRUCTORS MEETINGS 1989

TRADE	PAC MEETINGS	SUB-COMMITTEE MEETINGS	INSTRUCTOR MEETINGS	HIGHLIGHTS
AGRICULTURAL MECHANIC	0	1	4	revised course outline and examinations
APPLIANCE SERVICEMAN	0	0	1	revised examinations
AUTO BODY MECHANIC	0	1	4	revised examinations
BAKER	0	1	1	revised course outline
BARBER	0	0	1	course outline review
BEAUTICIAN	0	1	13	revised exams,course outline review,implemented I.P.
BOILERMAKER	0	1	2	revised examinations
BRICKLAYER	0	3	4	revised examination, course outline review
CABINETMAKER	1	1	5	revised examinations, discussed course oultine
CARPENTER	0	2	6	revised examinations, continued CBAT implementation
CEMENT FINISHER	1	1	0	discussed viability of program re. low enrollments
COMMUNICATION ELECTRICIAN	0	2	8	reviewed course outline, re. amalgamation of crafts
COOK	0	0	4	reviewed course outline
CRANE & HOISTING EQUIP. OP.	1	1	1	implementation of new program
ELECTRICAL REWIND MECHANIC	0	0	1	reviewed examainations
ELECTRICIAN	0	1	14	continued CBAT implementation
ELECTRONIC TECHNICIAN	0	0	8	reviewed course outline and examinations
ELEVATOR CONSTRUCTOR	0	0	0	skill profile under review
FLOORCOVERING MECHANIC	1	0	1	reviewed examiations
GASFITTER	1	4	5	revised & reviewed Trade Regs., exams
GLASSWORKER	0	0	1	reviewed examinations
HEAVY DUTY MECHANIC	1	2	20	revised course outline, exams & developed objectives
INSTRUMENT MECHANIC	1	0	8	revised course oultine and examinations
INSULATOR	0	1	3	reviewed course outline and examinations
IRONWORKER	0	1	0	revised examinations
LANDSCAPE GARDENER	0	0	3	revised examinations and course outline
LATHER-INTERIOR SYS. MECH.	1	0	1	reviewed regulation and examinations
MACHINIST	0	0	0	revision required for course outline & examination
MILLWRIGHT	1	0	5	revised exams, implemented revised course outline
MOTOR MECHANIC	1	2	5	revised course outline and examinations
MOTORCYCLE MECHANIC	0	4	2	reviewed course outline, revised examiantions
PAINTER AND DECORATOR	1	3	8	revised examinations, developed objectives
PARTSMAN	1	0	6	revised regulation, course outline and examinations
PLASTERER	1	1	0	reviewed regulation
PLUMBER	0	4	17	reviewed course outline, revised examinations

TABLE 3 Continued

PROVINCIAL APPRENTICESHIP COMMITTEE AND INSTRUCTORS MEETINGS 1989

TRADE	PAC MEETINGS	SUB-COMMITTEE MEETINGS	INSTRUCTOR MEETINGS	HIGHLIGHTS
POWER LINEMAN	1	1	3	reviewed regulation, revised examinations
POWER SYSTEM ELECTRICIAN	0	1	5	reviewed examinations and discussed course outline
PRINTING & G.A. CRAFTSMAN	0	0	5	reviewed examinations and discussed course outline
PROJECTIONIST	1	2	0	
RECREATION VEHICLE MECHANIC	1	3	0	revised examinations, revising course outline
REFRIGERATION MECHANIC	1	2	11	revised exams, name change to Refrig. & A.C. Mech.
ROOFER	0	0	1	reviewed examinations
SAWFILER	0	0	0	reviewing curriculum, Journeyman exam developed
SHEET METAL WORKER	1	4	7	implement revised course outline and examinations
SPRINKLER SYSTEMS INSTALLER	1	0	1	revised regulation, developed update programs
STEAMFITTER - PIPEFITTER	0	1	7	reviewed course outline, developed update programs
STEEL FABRICATOR	1	2	1	reviewed course outline and examinations
TILESETTER	0	1	6	reviewed course content and examinations
TRANSPORT REFRIG. MECHANIC	0	0	0	reviewed course outline
WATER WELL DRILLER	1	2	4	revised course outline and examinations
WELDER	0	3	4	revised 2nd and 3rd period exams for CBAT
TOTALS	**21**	**60**	**217**	

TABLE 4

SCHOOL ATTENDANCE BY LOCATION, 1985 TO 1989

	1985	1986	1987	1988	1989
*AVC'S	50	63	74	47	66
DELMAR	34	75	69	69	81
FAIRVIEW	463	511	491	531	556
KEYANO	508	506	604	474	424
LAKELAND	399	431	556	415	566
LETHBRIDGE	582	570	678	700	762
MARVEL	44	46	97	101	75
MEDICINE HAT	231	234	259	243	238
NAIT	6,804	6,274	6,630	5,919	5,560
OLDS	171	210	233	157	225
RED DEER	869	1,017	1,092	1,019	955
SAIT	4,413	4,139	4,057	3,559	4,075
WESTERRA	866	884	624	621	600
EMPLOYER TRAINED	46	21	27	27	33
BCIT (SAWFILERS)					20
TOTAL	**15,480**	**14,981**	**15,491**	**13,882**	**14,236**

TABLE 5

ANALYSIS OF SCHOOL ATTENDANCE BY LOCATION, 1989

	APPRENTICES					JOURNEYMAN		
	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR	TOTAL	UPGRADING	UPDATING	TOTAL
*AVC EDMONTON	57	0	0	0	57	0	0	0
*AVC GROUARD	0	9	0	0	9	0	0	0
DELMAR	19	62	0	0	81	0	0	0
FAIRVIEW	116	146	113	119	494	0	62	62
KEYANO	149	102	79	63	393	0	31	31
LAKELAND	163	136	91	58	448	24	94	118
LETHBRIDGE	132	134	100	91	457	0	305	305
MARVEL	19	56	0	0	75	0	0	0
MEDICINE HAT	48	58	31	17	154	0	84	84
NAIT	1,418	1,306	1,267	806	4,797	16	747	763
OLDS	76	67	37	45	225	0	0	0
RED DEER	275	189	180	111	755	0	200	200
SAIT	1,173	982	792	505	3,452	0	623	623
WESTERRA	201	177	128	76	582	0	18	18
EMPLOYER TRAINED	15	6	12	0	33	0	0	0
BCIT (SAWFILERS)	6	5	7	2	20	0	0	0
TOTAL	**3,867**	**3,435**	**2,837**	**1,893**	**12,032**	**40**	**2,164**	**2,204**

*AVC. Alberta Vocational Centre

TABLE 6

APPRENTICE TECHNICAL TRAINING ATTENDANCE BY TRADE, 1989

	FIRST	SECOND	THIRD	FOURTH	TOTAL
AGRICULTURAL MECHANIC	14	22	0	0	36
APPLIANCE SERVICEMAN	9	23	12	0	44
AUTO BODY MECHANIC	192	164	165	0	521
BAKER	31	39	31	0	101
BEAUTICIAN (BARBER)	38	118	0	0	156
BOILERMAKER	40	31	0	0	71
BRICKLAYER	18	26	0	0	44
CABINETMAKER	83	62	37	41	223
CARPENTER	318	261	173	126	878
CEMENT FINISHER	0	0	0	0	0
COMMUNICATION ELECTRICIAN	12	0	0	9	21
COOK	149	135	147	0	431
ELECTRICAL REWIND MECHANIC	12	0	8	4	24
ELECTRICIAN	544	447	326	345	1,662
ELECTRONIC TECHNICIAN	23	16	39	28	106
FLOORCOVERING MECHANIC	28	10	0	0	38
GASFITTER	19	0	14	0	33
GLASSWORKER	26	25	12	12	75
HEAVY DUTY MECHANIC	236	251	288	284	1,059
INSTRUMENT MECHANIC	70	48	50	72	240
INSULATOR	35	27	20	0	82
IRONWORKER	16	13	16	0	45
LANDSCAPE GARDENER	62	45	25	38	170
LATHER-INTERIOR SYSTEMS MECHANIC	10	4	13	0	27
MACHINIST	82	112	89	77	360
MILLWRIGHT	154	115	83	85	437
MOTOR MECHANIC	431	473	455	452	1,811
MOTORCYCLE MECHANIC	5	6	10	18	39
PAINTER AND DECORATOR	58	33	22	0	113
PARTSMAN	143	153	122	0	418
PLUMBER	150	122	123	115	510
POWER LINEMAN	38	40	21	0	99
POWER SYSTEM ELECTRICIAN	5	0	14	15	34
PRINT. & GRAPHIC ARTS CRAFTS.	45	35	32	41	153
RECREATION VEHICLE MECHANIC	18	19	0	0	37
REFRIGERATION & A.C. MECHANIC	38	40	42	49	169
ROOFER	13	8	11	0	32

TABLE 6 Continued

APPRENTICE TECHNICAL TRAINING ATTENDANCE BY TRADE, 1989

	FIRST	SECOND	THIRD	FOURTH	TOTAL
SAWFILER	6	5	7	2	20
SHEET METAL WORKER	86	77	40	45	248
SPRINKLER SYSTEMS INSTALLER	23	14	11	0	48
STEAMFITTER - PIPEFITTER	63	48	65	35	211
STEEL FABRICATOR	29	26	0	0	55
TILESETTER	16	0	0	0	16
TRANSPORT REFRIGERATION MECHANIC	8	11	0	0	19
WATER WELL DRILLER	25	9	0	0	34
WELDER	446	322	314	0	1,082
TOTALS	**3,867**	**3,435**	**2,837**	**1,893**	**12,032**

TABLE 7

TRADE CERTIFICATES ISSUED IN 1989

	JOURNEYMAN CERTIFICATES	COMPLETION OF APPRENTICESHIP CERTIFICATES	EXCHANGE CERTIFICATES	APPRENTICE INTERPROVINCIAL RED SEAL	REPLACEMENTS (JOURNEYMAN)	REPLACEMENTS (COMPLETION)	EP/MQP CERTIFICATE REPLACEMENTS	REPLACEMENT POCKET CERTIFICATES		EXTEND INTERPROVINCIAL RED SEAL	JOURNEYMAN UPDATING CARDS	REPLACEMENT JOURNEYMAN UPDATING CARDS
								JM.	COMP			
AGRICULTURAL MECHANIC	29	2										
APPLIANCE SERVICEMAN	25	15						2				
AUTO BODY MECHANIC	182	152	1	131	5	3		12	7	4	60	3
BAKER	71	43	1		1	1		1				
BARBER	19	2	1		3			7				
BEAUTICIAN	607	550	5	378	68	3		78	5	181		
BOILERMAKER	18	9	1	8	2			10	3	1		
BRICKLAYER	18	18		16				2				
CABINETMAKER	51	46										
CARPENTER	172	133	3	120	5	4		23	12	6	45	
CEMENT FINISHER	4											
COMMUNICATION ELECTRICIAN	10	5			3			1			45	
COOK	366	229		226	3	2		5	3	52		
CRANE & HOISTING EQUIP. OP.	1,197		2		1,942			4	1			
ELECTRICAL REWIND MECHANIC	10	4			1	1		14	7			
ELECTRICIAN	334	302	25	253	16	7	31	69	28	17	456	7
ELECTRONIC TECHNICIAN	44	22		16	2			13	1	1	12	1
ELEVATOR CONSTRUCTOR	7											
FLOORCOVERING MECHANIC	12	10			1			6	1			
GASFITTER	257	40			1		9	44			80	
GLASSWORKER	10	10		1	3	2				14		
HEAVY DUTY MECHANIC	417	275	15	275	9	5		31	6	12	172	
INSTRUMENT MECHANIC	139	96		88	1			4		33	30	
INSULATOR	46	40			1			14	3		25	3
IRONWORKER	22	8			2			4				
LANDSCAPE GARDENER	35	25						1				
LATHER-INTERIOR SYSTEMS MECHANIC	3	3			1							
MACHINIST	80	59		51				8	1	8	25	
MILLWRIGHT	219	66	5	63	12	3		21	5	51	30	
MOTOR MECHANIC	599	436	18	425	14	6		58	19	23	580	1
MOTORCYCLE MECHANIC	22	12						2	1			
PAINTER AND DECORATOR	30	14		20	1	1		9	2	6		
PARTSMAN	192	116			5	3		7	3			
PLASTERER											3	

TABLE 7 Continued

TRADE CERTIFICATES ISSUED IN 1989

	JOURNEYMAN CERTIFICATES	COMPLETION OF APPRENTICESHIP CERTIFICATES	EXCHANGE CERTIFICATES	APPRENTICE INTERPROVINCIAL RED SEALS	REPLACEMENTS (JOURNEYMAN)	REPLACEMENTS (COMPLETION)	EPB/GPB CERTIFICATE REPLACEMENTS	REPLACEMENT POCKET CERTIFICATES		EXTEND INTERPROVINCIAL RED SEAL	JOURNEYMAN UPDATING CARDS	REPLACEMENT JOURNEYMAN UPDATING CARDS
								JM.	COMP			
PLUMBER	167	156	5	141	4	1		60	22	4	86	
POWER LINEMAN	42	29	1	25	2			2				
POWER SYSTEM ELECTRICIAN	42	15			2						6	
PRINT. & GRAPHIC ARTS CRAFTSMAN	67	49			2	2		1				
RECREATION VEHICLE MECHANIC	26	13	1					1				
REFRIGERATION & A.C. MECHANIC	46	40	1	40				2	1			
ROOFER	30	9		7	2			3			12	
SAWFILER	11	8	1									
SHEET METAL WORKER	57	56	1	56	2	2		13	7		30	
SPRINKLER SYSTEMS INSTALLER	12	11		11	2						17	
STEAMFITTER - PIPEFITTER	141	41	1	41	4			21	2	10	10	
STEEL FABRICATOR	34	12						4				
TILESETTER	3											
TOOL AND DIE MAKER	5											
TRANSPORT REFRIGERATION MECHANIC	5	3										
WATER WELL DRILLER	14	10			1			2				
WELDER	440	323	29	323	21	3		116	37	39	282	
TOTALS	**6,389**	**3,517**	**117**	**2,715**	**2,144**	**49**	**40**	**675**	**177**	**462**	**2,006**	**15**

TABLE 8

EXAMINATIONS ADMINISTERED BY FIELD SERVICES DIVISION

TRADE	APPRENTICESHIP EXAMINATIONS								JOURNEYMAN EXAMINATIONS (QUALIFICATION'S DIVISION 2)		JOURNEYMAN EXAMINATIONS (PROFICIENCY DIVISION 3)		INTERPROVINCIAL STANDARDS EXAMINATIONS	TOTAL
	1st YEAR		2nd YEAR		3rd YEAR		4th YEAR							
	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	
AGRICULTURAL MECHANIC	26		26						7					59
APPLIANCE SERVICEMAN	22		26						22					70
AUTO BODY MECHANIC		260	39	170		164					45	32	202	912
BAKER	33		45		58				34					170
BARBER			5	2							18	17		42
BEAUTICIAN	107		828	752							98	90	775	2,650
BOILERMAKER	40		32						20				2	94
BRICKLAYER	20	2	27						2	2			2	55
CABINETMAKER AND									7	6				
PRODUCTION CABINETMAKER	113	17	77		40		42	41	1					344
CARPENTER	483	122	283	10	177	5	128	124	98	126			163	1,719
CEMENT FINISHER									5					5
COMMUNICATION ELECTRICIAN	62		41				9		11					123
COOK	326		177		257				174				337	1,271
CRANE & HOIST. EQUIP. OP.	2										1,280			1,282
ELECTRICAL REWIND MECHANIC	15				9		4		12					40
ELECTRICIAN	692		489		349		357				85		429	2,401
ELECTRONIC TECHNICIAN	50		46		47		33				59		34	269
ELEVATOR CONSTRUCTOR											11			11
FLOORCOVERING MECHANIC	28	27	10	10					8	4				87
GASFITTER	50				33						191			274
GLASSWORKER	36		25	26	14		12	12	5	8				138
HEAVY DUTY MECHANIC	493		336		294		308				212		385	2,028
INSTRUMENT MECHANIC	156		67		62		141		73				175	674
INSULATOR	43		28		20				14					105
IRONWORKER	17		13		16				17					63
LANDSCAPE GARDENER	72		54		25		38		25					214
LATHER-INT. SYS. MECHANIC	10		4		13	13			3					43
MACHINIST	184		125		88		79		48	36			105	665
MILLWRIGHT	247		150		84		86		232				167	966
MOTOR MECHANIC	727		571		478		521				227		609	3,133

TABLE 8 Continued

EXAMINATIONS ADMINISTERED BY FIELD SERVICES DIVISION

TRADE	APPRENTICESHIP EXAMINATIONS								JOURNEYMAN EXAMINATIONS (QUALIFICATIONS DIVISION 2)		JOURNEYMAN EXAMINATIONS (PROFICIENCY DIVISION 3)		INTERPROVINCIAL STANDARDS EXAMINATIONS	TOTAL
	1st YEAR		2nd YEAR		3rd YEAR		4th YEAR							
	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	
MOTORCYCLE MECHANIC	17		11		13		18				14			73
PAINTER AND DECORATOR	70		37		22				63				28	220
PARTSMAN	224		179		124				119					646
PLASTERER														
PLUMBER	264		151		127		109				31		134	816
POWER LINEMAN	40		41		22				13				39	155
POWER SYSTEM ELECTRICIAN	9		2		24		14		31					80
PRINTING & G.A. CRAFTSMAN	100		50		43		41		24					258
RECREATION VEHICLE MECH.	33		19								16			68
REFRIGERATION & A.C. MECH.	80		48		42		53				21		66	310
ROOFER	27		13		11				22				12	85
SAWFILER									5					5
SHEET METAL WORKER	72	67	18	3	22	1	68	28				41	67	387
SPRINKLER SYS. INSTALLER	27		16		11				2				11	67
STEAMFITTER - PIPEFITTER			62		69		36				125		69	361
STEEL FABRICATOR	37		30						30					97
TILESETTER	22													22
TOOL AND DIE MAKER									7					7
TRANSPORT REFRIG. MECHANIC	11		11						1					23
WATER WELL DRILLER	34		9						8					51
WELDER	629	227	365	14	319	314					11	12		14
ENTRANCE	5,601													5,601
TOTALS	11,611	501	4,717	817	3,077	333	2,097	205	1,143	182	2,675	347	4,221	31,926

TABLE 9

FIELD SERVICES DIVISION
SELECTED STATISTICAL DATA - 1989

	NEW APPRENTICES	APPRENTICE GRADUATES	SCHOOL ATTENDANCE	SHOP REGISTRATIONS	SHOPS NOT REGISTERED	LAC MEETINGS	HIGH SCHOOL VISITATIONS (NO. OF DAYS)
CALGARY	1,893	916	3,099	2,797	2,166	78	26
LETHBRIDGE	331	139	551	893	893	3	11
MEDICINE HAT	255	122	319	166	585	0	0
RED DEER	547	312	915	508	1,195	2	10.6
SOUTHERN REGION	**3,026**	**1,489**	**4,884**	**3,997**	**4,839**	**83**	**47.6**
BONNYVILLE	218	101	340	399	149	0	7.5
EDMONTON	2,861	1,473	4,423	2,461	4,068	82	56
HINTON	398	91	437	153	569	7	24
VERMILION	224	128	432	393	634	14	9
CENTRAL REGION	**3,701**	**1,793**	**5,632**	**3,406**	**5,420**	**103**	**96.5**
FORT MCMURRAY	234	142	524	235	881	0	1
GRANDE PRAIRIE	292	139	447	610	57	4	1
PEACE RIVER	164	82	245	340	245	3	1
HIGH LEVEL	18	0	30	0	0	0	0
SLAVE LAKE	57	9	87	0	134	0	0
NORTHERN REGION	**765**	**372**	**1,333**	**1,185**	**524**	**17**	**3**
ACCESS INITIATIVES	8	14	48	0	5	0	0
CENTRAL OFFICE	76	0	121	0	10	0	0
IF APPRENTICES	7	1	14	0	9	0	0
TOTAL	**7,583**	**3,669**	**12,032**	**8,588**	**10,807**	**203**	**147.1**

TABLE 10

APPRENTICE STATISTICS, 1989

TRADE	TOTAL REGISTERED TO DECEMBER 31, 1989	NEW APPRENTICES IN 1989	APPRENTICESHIP CANCELLATIONS IN 1989	GRADUATES IN 1989	TOTAL NUMBER OF GRADUATES IN 1946-1989
AGRICULTURAL MECHANIC	49	30	13	24	334
APPLIANCE SERVICEMAN	74	30	6	16	141
AUTO BODY MECHANIC	907	274	191	166	3,446
BAKER	215	90	33	42	398
BARBER	11	5	4	3	38
BEAUTICIAN	1,225	743	233	560	2,571
BOILERMAKER	90	42	7	9	259
BRICKLAYER	87	21	16	18	936
CABINETMAKER	405	141	52	46	426
CARPENTER	1,634	543	256	132	6,342
CEMENT FINISHER	24	10	10	0	5
COMMUNICATION ELECTRICIAN	77	51	5	5	3,594
COOK	1,023	450	210	228	1,401
CRANE & HOISTING EQUIPMENT OP.	79	56	2	1	39
ELECTRICAL REWIND MECHANIC	48	20	2	4	151
ELECTRICIAN	2,381	716	281	313	12,316
ELECTRONIC TECHNICIAN	167	53	22	23	739
FLOORCOVERING MECHANIC	82	46	23	10	217
GASFITTER	105	47	10	34	867
GLASSWORKER	141	52	62	12	274
HEAVY DUTY MECHANIC	1,546	529	113	293	6,283
INSTRUMENT MECHANIC	645	250	40	94	989
INSULATOR	168	50	42	40	646
IRONWORKER	52	23	13	7	339
LANDSCAPE GARDENER	297	107	84	25	59
LATHER-INTERIOR SYSTEMS MECHANIC	41	10	11	3	231
LOCKSMITH		DESIGNATED IN 1989			
MACHINIST	477	128	59	60	1,251
MILLWRIGHT	682	258	38	66	1,406
MOTOR MECHANIC	2,707	814	312	479	12,555
MOTORCYCLE MECHANIC	65	23	20	16	21
PAINTER AND DECORATOR	159	67	39	20	858
PARTSMAN	741	279	127	115	1,909
PLUMBER	827	258	102	157	7,332
POWER LINEMAN	151	66	16	29	792
POWER SYSTEM ELECTRICIAN	49	34	5	15	75
PRINT. & GRAPHIC ARTS CRAFTSMAN	364	108	83	39	152
RECREATION VEHICLE MECHANIC	80	46	20	11	56
REFRIGERATION & A.C. MECHANIC	264	86	30	48	661
ROOFER	66	36	10	9	324

TABLE 10 Continued

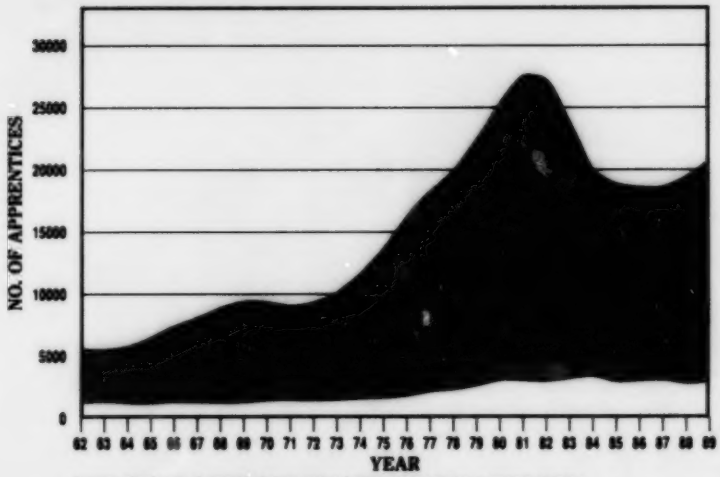
APPRENTICE STATISTICS, 1989

TRADE	TOTAL REGISTERED TO DECEMBER 31, 1989	NEW APPRENTICES IN 1989	APPRENTICESHIP CANCELLATIONS IN 1989	GRADUATES IN 1989	TOTAL NUMBER OF GRADUATES IN 1946-1989
SAWFILER	34	14	2	9	10
SHEET METAL WORKER	460	114	78	61	3,094
SPRINKLER SYSTEMS INSTALLER	65	14	15	11	119
STEAMFITTER - PIPEFITTER	333	134	32	44	1,154
STEEL FABRICATOR	58	27	13	12	407
TILESETTER	52	19	29	1	146
TRANSPORT REFRIGERATION MECHANIC	22	6	5	3	25*
WATER WELL DRILLER	60	30	9	10	136
WELDER	1,663	633	172	346	9,798
TOTALS	**20,952**	**7,583**	**2,951**	**3,669**	**85,322**

*Due to error in 1986 report, corrected count in 1989 appears lower.

CHART 1

SELECTED APPRENTICESHIP STATISTICS 1962 TO 1989



TOTAL REGISTERED
20,952

SCHOOL ATTENDANCE
12,032

NEW APPRENTICES
7,583

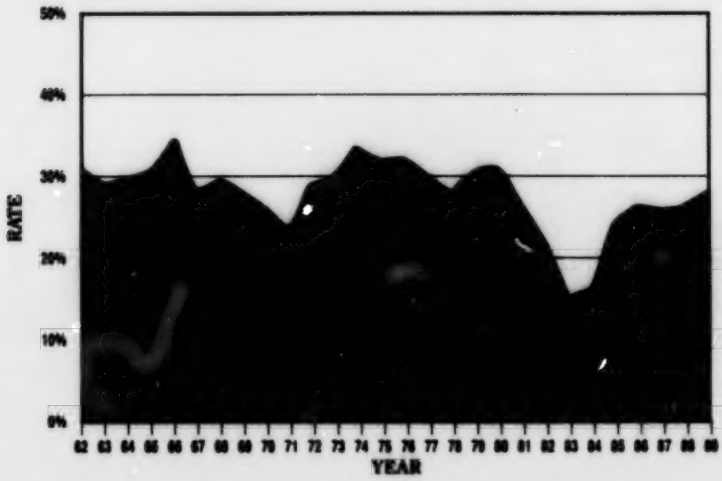
GRADUATIONS
3,669

CANCELLATIONS
2,951

NOTE: SCHOOL ATTENDANCE EXCLUDES UPDATING & UPGRADING

CHART 2

INDENTURE AND CANCELLATION RATES 1962 TO 1989



INDENTURE RATE
27.8%

CANCELLATION RATE
10.8%

NOTE: Indenture Rate is the ratio of new apprentices in a year to the sum of the total registered apprentices at the beginning of the year and new apprentices in that year.

Cancellation rate is the ratio of cancelled contracts during the year to the sum of total registered apprentices at the beginning of the year and new apprentices in that year.

CHART 3

ATTENDANCE IN EDUCATIONAL IMPROVEMENT COURSES 1969 TO 1989

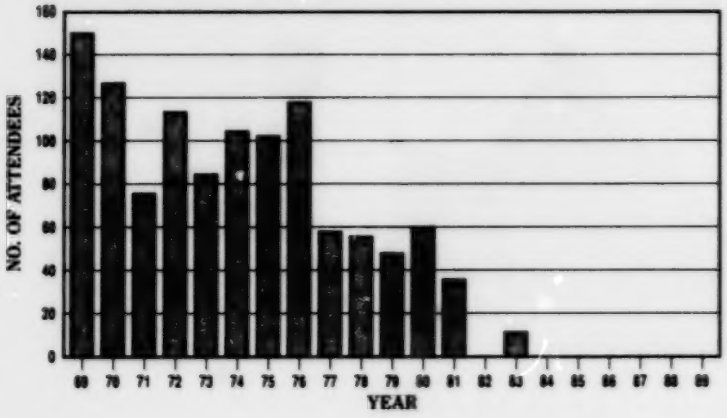


CHART 4

ATTENDANCE IN JOURNEYMAN UPGRADING COURSES 1969 to 1989

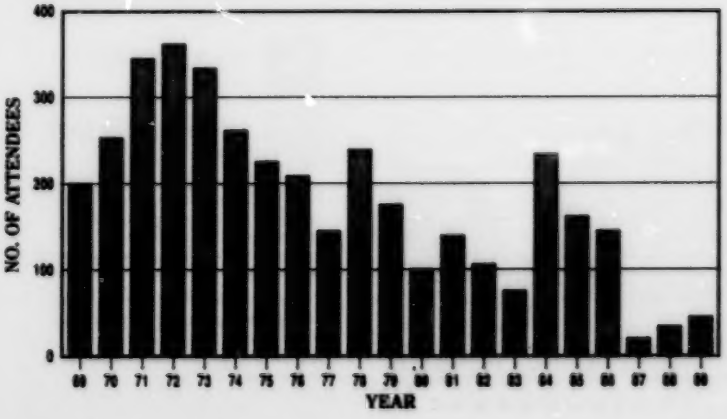


CHART 5

JOURNEYMAN UPDATING COURSE ATTENDANCE 1984 TO 1989

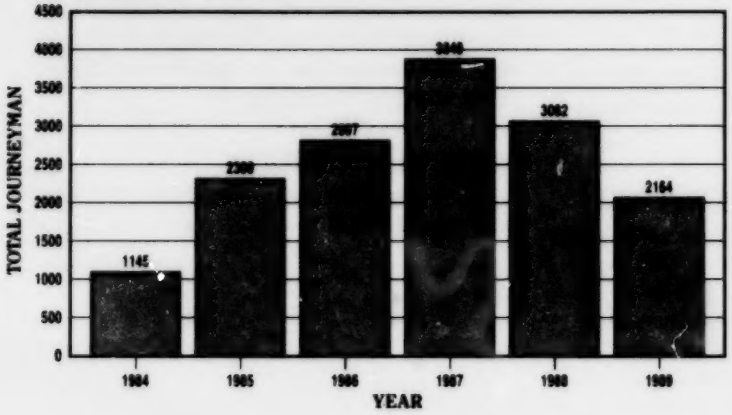
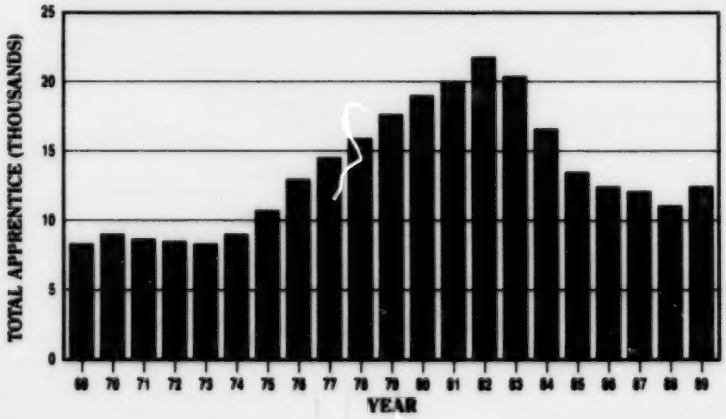


CHART 6

APPRENTICESHIP TECHNICAL TRAINING ATTENDANCE - 1969 TO 1989



APPRENTICESHIP AND TRADE CERTIFICATION FINANCIAL REPORT FOR 1989

INCOME

Fees for the administration of examinations and issuance of certificates resulted in an income of **$104,485.00** during 1989.

ADMINISTRATIVE EXPENDITURES

Administration of the Apprenticeship and Trade Certification system during 1989, resulted in a total expenditure by Career Development and Employment of **$8,314,370.00**. This administrative expenditure does not include institutional costs, federal expenditure for trainee support or the cost of training apprentices which is incurred by employers.

CANADA MANPOWER TRAINING PLAN AGREEMENT

In 1989, the federal government continued to provide financial support for Apprenticeship programs through the provisions of the Canada Manpower Training Plan Agreement. Under this agreement the Federal Department of Employment and Immigration:

a) paid approximately **$23 M** in direct student support in the form of training allowances (either manpower allowances or UIC benefits) and travelling allowances to eligible apprentices; and
b) reimbursed the government of Alberta approximately **$17 M** as a portion of the cost of training apprentices and journeymen.

INSTITUTIONAL COST

This includes both amortized capital costs and the cost of delivering apprenticeship technical instruction. The estimated total institutional cost for 1989 was approximately **$50 M**. The net cost to the province of providing apprenticeship technical training is that portion of the total institutional costs which remains after the federal reimbursement made through the Canada Manpower Training Plan agreement.

LOANS TO APPRENTICES

Loans to apprentices were arranged through the Student Finance Board.